

Yoobao E-Wheel

—Your will, Your wheel—



User Manual

Please read this manual carefully before using.
Please keep this manual properly.

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1. Important Information

Safety Instructions

Whenever you ride the E-Wheel you risk serious injury or death from collisions, falls or loss of control. To ride safely, you must read and follow all instructions and warnings in this manual.

Attentions

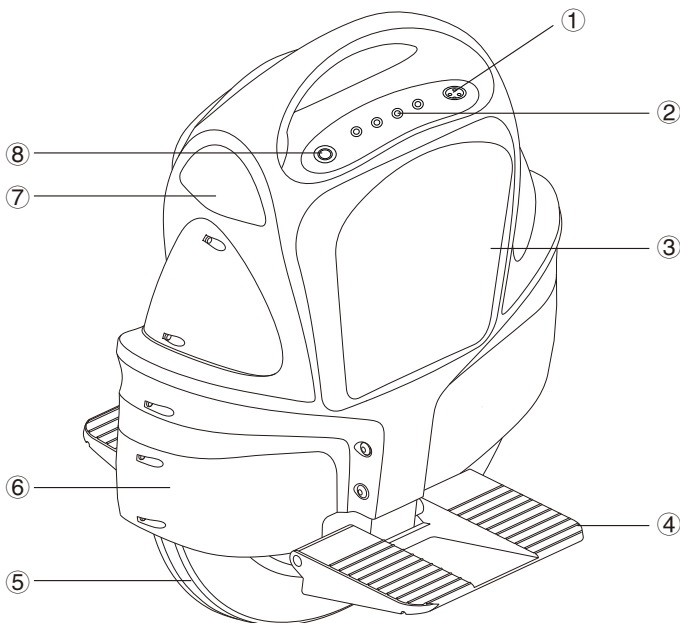
- E-Wheel is a commuting machine instead of a transportation machine, please do not ride it on the vehicle road.
- Personal safety is the priority when the rider is about to fall.
- Avoid obstacles and slippery surfaces, such as gravel road and water surface.
- Always wear helmet, gloves, elbow guard and other protective gear for safety reasons.
- Please ride on safe roads and avoid bumpy surface, slippery surface and water surface.
- Children must be supervised by adults when riding the Wheel.
- Do not lift the E-Wheel off the ground when the unit is turned on. This will cause the wheel to spin freely which could result in injury to yourself or damage to things around you.

- Do not accelerate and decelerate suddenly. Since the E-Wheel balances by accelerating in response to your leaning forward, please do not lean to far forward quickly. Do not accelerate. When only one power indicator is on, please ride slowly and recharge it as soon as possible.
- Do not ride on a steep slope which is more than 15 degree.
- Always ride under control at a speed that is safe for you and those around you.
- Respect pedestrians by always yielding the right of way. Avoid startling pedestrians. When approaching from behind, announce yourself and slow down to walking speed when passing. Pass on the left whenever possible. When approaching a pedestrian from the front, stay to the right and slow down.
- Do not ride at night when visibility is poor and you cannot see your surroundings clearly. Slow down, be alert, and use a torch if necessary.
- Keep your posture upright, but relaxed with your body aligned over the E-Wheel and your feet centered on the platforms. Be alert. Scan both far ahead and in front of you—your eyes are your best tool for safely avoiding obstacles and slippery surfaces.
- Avoid riding reversely since it is dangerous. Riding backward is only for avoiding obstacles.

2. Product Description

E-Wheel, the body-balancing unicycle, is a high technology, electric-drive and fashionable walking machine. It feels the rider's gravity through the built-in 6-axis gyro-sensor. Getting rid of traditional handle and accelerator, the rider just needs to step on the pedals besides the wheel, and control E-Wheel to go front and back, turn and brake by leaning. E-Wheel completely set hands free, and provides perfect feeling of riding.

The built-in gyro-sensor in the E-Wheel feels rider's stance, and controls the brushless motor to rotate front or back. During this process, the opposite acting force will balance the rider from front to back so that the rider can step on the E-Wheel. The rider can control the E-Wheel to accelerate by leaning forward. The rider can control the E-Wheel to decelerate or go backward by leaning backward. To turn left or right, the rider needs to twist his feet right and left. The accelerating or decelerating rate depends on the angle of rider's inclination. The more inclined the rider is, the faster speed will be. Please do not ride over speed.



Product Structure

- ① Charging port
- ② Power indicator
- ③ Leg protecting foam sheet
- ④ Hard aluminum alloy pedal
- ⑤ Durable and antiskid tire
- ⑥ Super hard body
- ⑦ Intelligent LED auxiliary light
(head light and tail light will switch automatically)
- ⑧ Power button

Package Contents:

E-Wheel	1
Charger	1
User manual	1

3. Riding Guidelines

1. Turn on: Grab the handle of the E-Wheel and set it on the ground vertically and press the power button. The power indicators will turn red and the buzzer will buzz once which indicates the E-Wheel is ready.
2. Turn off: Grab the handle of the E-Wheel and set it on the ground vertically and press the power button. The power indicators will be off which means the E-Wheel is already off.

3. Charge: Open the charging port cap, plug one end of the power cord into the E-Wheel. Plug the other end into a grounded AC outlet. The red charging LED light on the charger unit will turn on. When fully charged, the light will turn green.

4. Riding Steps for Beginners

1. Grab the handle of the unicycle with a single hand and set it on the ground vertically. Turn the power on.
2. Unfold the pedals on each side, place your feet horizontally on each side of the E-Wheel. If you practice it alone, you should apply to something for help, such as holding the railing or wall. You'd better get two persons each on your left and right side to help you to learn, which will be safer and faster for your learning.
3. Put your left or right foot (depends on your habit) on one pedal, make sure your foot is centered on the pedal. Your lower leg should be firmly against to the leg pad.
4. Keep your body straight and keep your eyesight at the horizontal level. Shift your body weight to your foot on the pedal, and keep your balance.

5. Always keep the posture of Step 3, and gradually shift your body weight to the foot on the pedal. Try to take the other foot off the ground and find your balance point. Keep trying until you can keep your leg straight with only one leg on the pedal.
6. After you strictly follow those steps above, you can try to slide slowly with one foot on the pedal and try to keep sliding for a long time.
7. After you can keep it slide and balance yourself, you can put the other foot on the pedal, at the same time, relax both your lower legs. Step forward and backward on the pedals to keep the balance when you are riding.
8. After you become familiar with the straight riding, you can try to shift your body gravity or control your feet by twisting left or right to change the riding direction.

5. Warnings

1. Speed Warnings:
 - If speed is over 15km/h, the buzzer will buzz twice every second.
 - If speed is over 17km/h, the buzzer will buzz three times every second, and the pedals will be raised up and the speed will be slowed down. Please don't accelerate any more at this moment.
 - When the electric engine is loaded over 80% weight, buzzer will buzz 5 times every second.
2. Capacity warnings:
 - Four indicators are on: 80%-100% capacity
 - Three indicators are on: 60%-80% capacity
 - Two indicators are on: 40%-60% capacity
 - One indicator is on: 20%-40% capacity
 - Four indicators flash at the same time: capacity is lower than 20%
 - ↳ Speed is lower than 12km/h, buzzer will buzz once every 2 seconds.
 - ↳ Speed is between 12km/h-15km/h, buzzer will buzz twice every 2 seconds.
 - ↳ Speed is 15km/h, buzzer will buzz three times every 2 seconds.
 - Pedals rise automatically: the capacity is lower than 5%.
3. Leaning Warnings:
 - When leaning over 45° , the buzzer will buzz once every second, and the electric engine will stop rotating to protect the unicycle and the rider at the same time.
 - Put the E-Wheel vertically. The buzzer will have a long buzz which indicates the warning is dismissed. You can ride the E-Wheel again now.
4. Over-temperature warning:
 - Temperature within the unicycle is over 70°C : The buzzer will buzz twice quickly within 2 seconds, and the pedals will rise automatically. Please do not ride the E-Wheel and turn off the power for a while to cool it down. This can protect the circuit board inside and keep you safe.

6. Maintenance

1. Store your E-Wheel in a place away from moisture so as to protect the electronic components.
2. If you will not be using the E-Wheel for an extended length of time, you should fully recharge the battery at least once every two months to keep it from draining completely.
3. Please clean the dirt on the body of E-Wheel with a wet cloth. Never try to clean the E-wheel with gasoline, solvent or any other chemical reagent.
4. Make sure the tire is properly inflated. You can use Tire pump to inflate the tire when the air is insufficient.
5. If you cannot inflate the E-Wheel with normal pump due to the limited space, please connect the extended charging connector with the tire connector to inflate the tire.
6. Change the E-Wheel Tire:
When the tire is damaged, you can open the side cover to change or repair the tire. First, unscrew the screw around the outside of the cover with a screwdriver; secondly, remove the screw on the middle of the cover at the side that needs to be repaired, and then you can open the cover. Please pay attention to the connecting cables between the two side covers and do not pull them hard.

7. Warranty Conditions

Thank you for choosing product of Shenzhen YOOBAO Technology Co., Ltd (YOOBAO). For a better usage of YOOBAO products, please read the following terms carefully.

1. Warranty Scope:

- YOOBAO provides the warranty for different parts with different warranty periods. Warranty takes effect from the purchased date.
- Customers have the right to repair, replace or return the product during warranty period.
- The warranty period will be recalculated from the date when the product is replaced.
- Warranty for spare parts (Refer to Fig 1).

2. Warranty Exception:

We do not provide warranty service for problems caused not by quality, such as improper usage, wrong accessory installation, overload, accident, etc. We only provide paid service for the following situations:

- Exceed the warranty scope.
- Users do not follow the user manual to use or maintain improperly; such as battery over charging, overload, etc.
- Damage caused by force majeure, or by chemical substance.

- Vulnerable parts such as LED light, fuse, friction plate, gaskets and other rubber parts.
- Users repair, open or refit the unicycle by themselves instead of the authorized distributors.
- Malfunction caused by using non-original YOUBAO accessories and the cost to repair it.
- Damage caused by using low quality battery or electrical motor.
- Sound, vibration and heat that have no influence on the performance of the unicycle.
- Damage caused by improper charging, modifying or adding other spare parts to the unicycle.

Fig1

Item	Replacing standard	Not replacing standard	Testing method	Warranty
Battery	Battery damaged, charging efficiency lower than 40%	Normal charging or discharging; not proper used or human damage; use non-original charger.	Multimeter	6 months
Charger	Not working	Improper usage or human damage; cover damage.	Charging experiment, visual inspection	6 months
Hub motor	Bearing damaged; cover broken	Improper usage or human damage; cover scratched or out of shape; modified , get wet; hub out of shape	Visual inspection,	12 months
Cover	Out of shape	Cover scratched, broken; disassemble, improper usage or human damage	Visual inspection	15days
Inner tire	Air leaking	Improper usage, repair; airbag damaged;	Visual inspection	15days
Cover tire	Cracking	Tread worn out; damaged caused by over-speed.	Visual inspection	1 months

Your will Your wheel



Motor	14 inch super mute brushless motor
Power rate	350W
Power capacity	130Wh
Rated voltage	59.2V
Charging voltage	67.2V
Charging current	2A/1.5A
Warning speed	15km/h
Max.speed	17km/h
Max.range	16km
Max.uphill	30 degree
Max.load	100kg
Item weight	10kg
Origin	China

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